

Title (en)
Signal processing apparatus and signal processing method

Title (de)
Signalverarbeitungsvorrichtung und Signalverarbeitungsverfahren

Title (fr)
Appareil et procédé de traitement de signal

Publication
EP 1970901 A3 20100915 (EN)

Application
EP 08101094 A 20080130

Priority
JP 2007025920 A 20070205

Abstract (en)
[origin: US2008186218A1] Disclosed herein is a signal processing apparatus including: analog-to-digital conversion means for performing delta sigma modulation of generating a digital signal having a predetermined sampling frequency and a predetermined quantization bit rate of one or more bits based on an input analog signal; signal processing means including a digital filter having a characteristic for outputting a digital signal having a sampling frequency nF_s (F_s is a reference sampling frequency) and a quantization bit rate of a bits (a is a natural number greater than one) based on the above digital signal; and digital-to-analog conversion means including a part for performing delta sigma modulation for outputting a digital signal having a sampling frequency nF_s and a quantization bit rate of b bits (b is a natural number greater than zero and less than a) based on a digital signal outputted from the signal processing means.

IPC 8 full level
G10L 21/02 (2006.01)

CPC (source: EP US)
G10K 11/17823 (2017.12 - EP US); **G10K 11/17827** (2017.12 - EP US); **G10K 11/17854** (2017.12 - EP US); **G10K 11/17855** (2017.12 - EP US); **G10K 11/17873** (2017.12 - EP US); **G10K 11/17875** (2017.12 - EP US); **G10K 11/17885** (2017.12 - EP US); **G10L 21/0208** (2013.01 - EP US); **G10K 2210/1081** (2013.01 - EP US); **G10L 2021/02165** (2013.01 - EP US)

Citation (search report)

- [XYI] US 2004193296 A1 20040930 - MELANSON JOHN LAURENCE [US]
- [Y] US 2003012391 A1 20030116 - ARMSTRONG STEPHEN W [CA], et al
- [A] US 5251263 A 19931005 - ANDREA DOUGLAS [US], et al

Cited by
EP1970902A3; GB2492983A; GB2492983B; US10896668B2; US10795639B2; US10818281B2; US9031251B2; US10667034B2; US8094046B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
US 2008186218 A1 20080807; US 7592941 B2 20090922; CN 101242678 A 20080813; CN 101242678 B 20120118; EP 1970901 A2 20080917; EP 1970901 A3 20100915; EP 1970901 B1 20111214; JP 2008193421 A 20080821; JP 4882773 B2 20120222

DOCDB simple family (application)
US 96616807 A 20071228; CN 200810006233 A 20080204; EP 08101094 A 20080130; JP 2007025920 A 20070205